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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	•	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/730,421	12/08/2003		Henry Nita		PAT-1540 2510		
7590 11/14/2005		11/14/2005			EXAMINER		
Raymond Sun 12420 Woodhall Way					VRETTAKOS, PETER J		
Tustin, CA 92782				ART UNIT PAPE		PAPER NUMBER	
,					3739		

DATE MAILED: 11/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

The									
Applicant(s)	1								
NITA ET AL.									
Art Unit	1								
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S) OR THIRTY (30) DAYS,									
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			21	NITA ET AL.						
	Office Action Summary	Examiner		Art Unit						
		Peter J. V	rettakos	3739						
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Status										
1)⊠	Responsive to communication(s) file	ed on <u>12-8-03</u> .								
•	This action is FINAL . 2b)⊠ This action is non-final.									
3) 🗌	Since this application is in condition	for allowance except	for formal matters, pro	osecution as to the n	nerits is					
	closed in accordance with the practi	ce under <i>Ex parte</i> Qເ	iayle, 1935 C.D. 11, 4	53 O.G. 213.						
Dispositi	on of Claims									
4)⊠	Claim(s) 1-20 is/are pending in the a	application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	5) Claim(s) is/are allowed.									
•	6)⊠ Claim(s) <u>1-20</u> is/are rejected.									
	Claim(s) is/are objected to.	tier and/an alastian r	o quirom o nt							
8)[_]	Claim(s) are subject to restrict	and/or election i	equirement.							
Applicat	ion Papers									
,—	The specification is objected to by th			 .						
10)	The drawing(s) filed on is/are									
	Applicant may not request that any objective Replacement drawing sheet(s) including				? 1 121/d)					
11)	The oath or declaration is objected to									
•	under 35 U.S.C. § 119	o by the Examiner.								
•		for foreign priority un	dor 25 U.S.C. & 110/o) (d) or (f)						
	Acknowledgment is made of a claim ☐ All b) ☐ Some * c) ☐ None of:	lot to leight phonity un	dei 33 0.3.0. 3 119(a	ij-(d) or (i).						
a)	1. Certified copies of the priority	documents have been	en received.							
	2. Certified copies of the priority			ion No						
	3. Copies of the certified copies				tage					
	application from the Internation	onal Bureau (PCT Ru	le 17.2(a)).							
* ;	See the attached detailed Office action	on for a list of the cert	ified copies not receiv	ed.						
Attachmer	ut(s) ce of References Cited (PTO-892)		4) Interview Summary	v (PTO-413)						
2) Notice	ce of Draftsperson's Patent Drawing Review (Paper No(s)/Mail C	ate	4.50)					
	mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date <u>12-8-03</u> .	r PTO/SB/08)	5) Notice of Informal 6) Other:	Patent Application (PTO-1	152)					
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9,12,14-18 and 20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kesten et al. (6,251,104).

Independent claims 1, 17

Kesten discloses a therapeutic system (figure 1), comprising;

a guide catheter (13) having a lumen;

a sheath (14) having an elongate body that has a lumen and a distal end, the sheath extending through (figure 1) the lumen of the guide catheter (13); and a catheter (16) extending through the lumen of the sheath.

Kesten discloses a method of placing the distal end of a catheter at a desired location inside a vessel, comprising:

providing a sheath (14) having an elongate body (26) that has a lumen and an angled (figures 1, 4), distal end (25);

extending a catheter (16) through the lumen of the sheath; and extending the sheath (14) through the lumen of a guide catheter (13). This is depicted in figure 1 and described in col. 4:8-43; col. 6:1-8.

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Dependent claims (below numbers correspond to claims)

2. The system of claim 1, wherein the sheath (14) further includes a proximal end, and a

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valved fitting (33; figure 4; col. 8:45-50) provided at the proximal end of the sheath.

3. The system of claim 1, wherein the elongate body comprises a main shaft member

(26) and a distal shaft member (25), with the lumen of the sheath (14) extending

through the main shaft member and a distal shaft member.

4. The system of claim 3, wherein the main shaft (26 part of 14) member is formed of an

outer polymeric material (32) having a reinforcing layer (28, 31) embedded therein.

5. The system of claim 4, wherein the reinforcing layer (28, 31) is made of stainless

steel (31, col. 8:21-31).

6. The system of claim 4, wherein the reinforcing layer (28, 31) is made of a

superelastic alloy (col. 4:61-62).

7. The system of claim 4, wherein the reinforcing layer (28, 31) is a braid (braided or

wound, col. 8:40-41).

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- 8. The system of claim 4, wherein the reinforcing layer (28, 31) is a coil (braided or wound (coil), col. 8:40-41).
- 9. The system of claim 3, wherein the lumen of the sheath (14) has an inner wall, with a lubricious polymeric material (30) provided on the inner wall of the lumen of the sheath.
- 12. The system of claim 3, wherein the hardness of the material at the distal shaft (25) member is equal to the hardness of the material at the main shaft member (26). This is strongly inferred in by the uniformity of elements 26 and element 25 depicted in figure 4.
- 14. The system of claim 1, wherein the catheter is an ultrasound catheter (see patented claim 49 and col. 3:64 through col. 4:4).
- 15. The system of claim 1, wherein the catheter (16) has a proximal end, the system further including a transducer housing (inherent to the ultrasound disclosure in col. 4:4) coupled to the proximal end of the catheter (16).
- 16. The system of claim 1, wherein the distal end of the elongate body is angled by an angle of between 10 degrees and 90 degrees (see figure 4; col. 3:35-37).
- 18. The method of claim 17, further including: advancing the sheath (14) independently beyond the distal end of the catheter (16). This step is anticipated in the patented

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disclosure regarding advancing elements 13 and 14 prior to insertion of catheter 16 (col. 4:37-42). Also, see col. 9:39-44.

20. The method of claim 17, further including: torquing (see rotational language in col. 4:37-43) the sheath to redirect the angled distal end of the sheath.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 13 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kesten.
- 13. The system of claim 1, wherein the elongate body (14/26; figure 2) has an outer surface that is coated with a lubricious coating. This is reversed in the patent. Lubricious coatings 27 and 30 both lie in *inner* surfaces of elements 14 and 13. According to MPEP 2144.04 VI. A, which is presented below, the reversal is obvious. Note also that the reversal here yields the same ends/result, to lubricate/facilitate movement of the two parts.
- 19. The method of claim 17, further including: retracting the sheath (14) proximal from the distal end of the catheter (16). The same reversal rationale applies here. The

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patent discloses advancing and retracting the catheter relative to the sheath. *In re Gazda* indicates these differences between the patent and the Applicant's claims as obvious.

VI. REVERSAL, DUPLICATION, OR REAR-RANGEMENT OF PARTS

A. Reversal of Parts

cost.

In re Gazda, 219 F.2d 449, 104 USPQ 400 (CCPA 1955) (Prior art disclosed a clock fixed to the stationary steering wheel column of an automobile while the gear for winding the clock moves with steering wheel; mere reversal of such movement, so the clock moves with wheel, was held to be an obvious expedient.).

2. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kesten in view of Berg et al. (5,680,873).

Berg discloses an analogous device that propounds the advantages (col. 5:9-14) of reinforcement free polymeric material in the context of the patented device such as

Kesten is silent regarding a lack of reinforcements in the polymeric material.

Therefore, at the time of the invention it would have been obvious to one of ordinary skill in the art to modify Kesten in view of Berg by leaving out reinforcing material. The motivation would be to keep costs of manufacturing down (Berg col. 5:9-14).

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3. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kesten in view of Moorman et al. (6,652,520).

Kesten is silent regarding the outer diameter of the distal shaft member (25) being smaller than the outer diameter of the main shaft member (24).

Moorman discloses in an analogous system and sheath (figure 1e) with the outer diameter of the distal shaft member (14) being smaller than the outer diameter of the main shaft member (13) to improve the rigidity of the main/proximal shaft member (see Moorman col. 8:52-54).

Therefore, at the time of the invention it would have been obvious to one of ordinary skill in the art to modify Kesten in view of Moorman by designing a sheath with an outer diameter of the distal shaft member of a sheath being smaller than the outer diameter of the main shaft member. The motivation would be improve the rigidity of the proximal portion as posited in Moorman col. 8:52-54.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J. Vrettakos whose telephone number is 571-272-4775. The examiner can normally be reached on M-F 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C. Dvorak can be reached on 571-272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pete Vrettakos November 8, 2005 ROY D. GIBSON
PRIMARY EXAMINER

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